

**SNOWPULSE®**  
MAMMUT AIRBAG TECHNOLOGY

## Flying with an avalanche airbag



SWISS TECHNOLOGY +



**MAMMUT®**  
Absolute alpine.

## Flying with an avalanche airbag

### **General:**

In general, it is possible to transport Mammut and Snowpulse avalanche airbags by air.

The pressure cartridges used in avalanche airbags are classed as hazardous goods. Special regulations therefore apply if you wish to carry them with you on a flight.

On the other hand, Mammut and Snowpulse airbag back-packs, and the individual airbag systems, can be transported without any problem.

Transportation of the pressure cartridges is governed by the International Air Transport Association (IATA). In normal circumstances, individuals are not permitted to carry hazardous goods on board an aircraft. However, airbag pressure cartridges are covered by a special IATA regulation permitting one cartridge per person. These special regulations are recorded in the IATA Table 2.3A.



## **IATA approval:**

Avalanche airbags and cartridges may be transported

(Cartridge Non-Refillable 300 Bar Steel, Carbon Cartridge Non-Refillable 300 Bar, Cartridge Refillable 207 Bar Alu) subject to the following conditions:

- One avalanche airbag and one cartridge per person
- The pressure cartridge must be filled with Class 2.2 gas (all Mammut/Snowpulse cartridges are filled with Class 2.2 gas)
- The pressure cartridge may not be transported separately from the avalanche airbag. The cartridge must be transported in the avalanche airbag compartment provided.
- It must be packed in a manner that prevents accidental activation (cartridge must not be screwed into the airbag system)
- The airbag must be fitted with a pressure release valve (all Mammut/Snowpulse airbag systems are fitted with a pressure release valve)
- The airline's approval is required
- The avalanche airbag and cartridge may be carried in hand baggage or as checked-in baggage.



### **Tips for traveling with a pressure cartridge:**

Before booking your flight, inform the airline operator that you plan to take a cartridge on board. Send the airline the appropriate cartridge data sheet in advance, together with the extract from the IATA Table 2.3A. Both of these documents can be downloaded from our website

[www.mammut.ch/airbags](http://www.mammut.ch/airbags)

We recommend transporting the avalanche airbag as checked-in baggage. Before doing this, place the cartridge in the avalanche airbag compartment provided. Screw for the protective cap onto the cartridge before transporting it. Insert the cartridge with a printout of the cartridge data sheet and IATA-2.3A table.

**IMPORTANT:** Despite the IATA's approval, any airline operator is entitled to refuse to transport the cartridge.



## Special regulation for the USA

The Transportation Security Administration (TSA) does not permit the carrying of filled pressure cartridges on flights arriving into or departing from the USA, or on internal flights within the USA.

This regulation also applies to passengers transferring between flights in the USA.

The TSA regulation can be found here:

**[www.tsa.gov/traveler-information/  
compressed-gas-cylinders](http://www.tsa.gov/traveler-information/compressed-gas-cylinders)**

Any cartridge carried into the USA must be completely discharged and the valve must be removed from the cartridge body for the security check.

The following cartridges cannot therefore be transported to the USA since after discharging they cannot be refilled locally in the USA.



- Cartridge Non-Refillable 300 Bar Steel
- Carbon Cartridge Non-Refillable 300 Bar

Customers with these cartridges are recommended to hire a cartridge locally during their stay in the USA.

A list of cartridge rental stations can be found here:

**[www.mammut.ch/cartridge-rental](http://www.mammut.ch/cartridge-rental)**



## Special regulation for the USA

The following cartridges can be discharged in preparation for transport to the USA and then refilled locally.

- Cartridge Refillable 207 Bar Alu
- Cartridge Refillable 207 Bar Alu empty



The cartridge can be refilled in diving shops and paintball venues. However, we recommend that you use an official Mammut/Snowpulse cartridge refilling station.

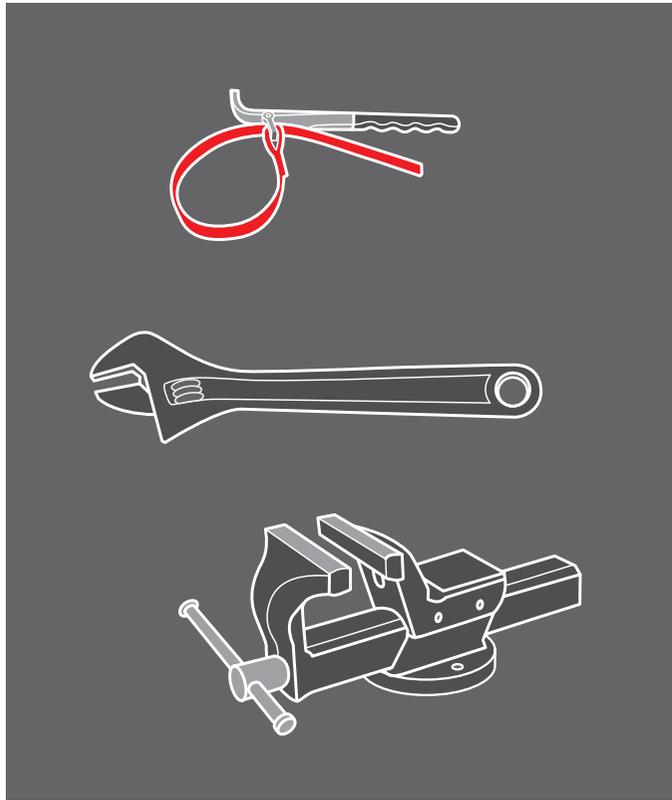


# Preparing the “Cartridge Refillable 207 Bar Alu” for a flight arriving in or departing from the USA

Most official refilling stations will be able to assist with the following steps.

These tools will be required for the following steps:

- Strap wrench, min. 200mm with fabric strap
- Adjustable spanner, min. wrench size 28mm
- Bench vise



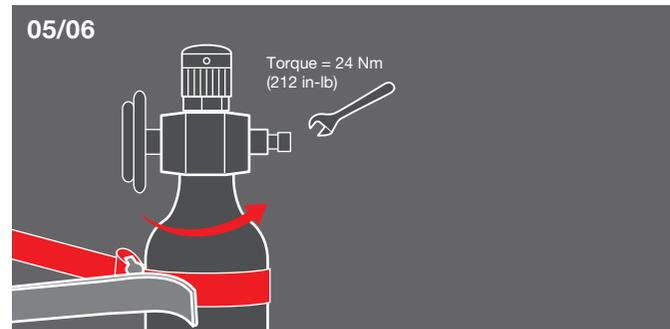
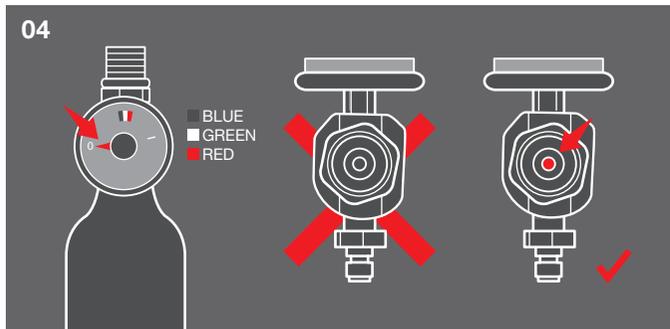
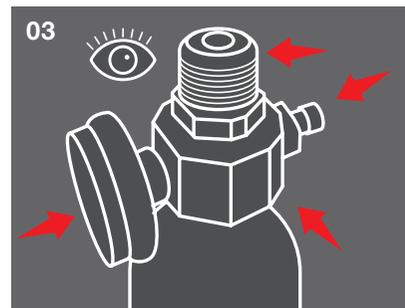
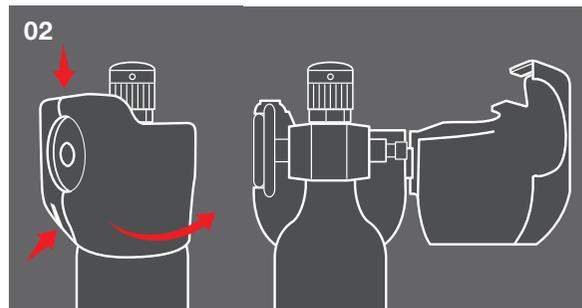
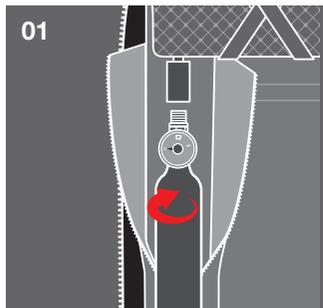
- 01** Remove the cartridge from the airbag system
- 02** Remove the protective housing (optional)
- 03** Make sure that the cartridge is in good condition. Inspect the cartridge for any signs of corrosion or broken components.
- 04** Make sure that the cartridge is empty. The cartridge is empty if the cartridge pressure gauge shows 0 psi (= 0 bar) or the Burst Disc has a hole.

If the cartridge is still full, discharge it.

Cartridges must only be discharged using a Snowpulse and Mammut airbag system.

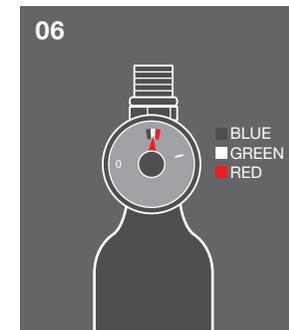
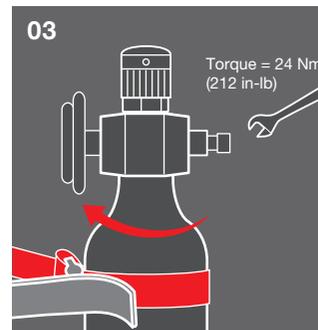
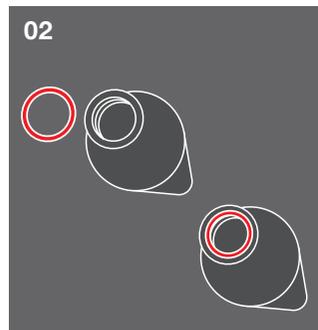
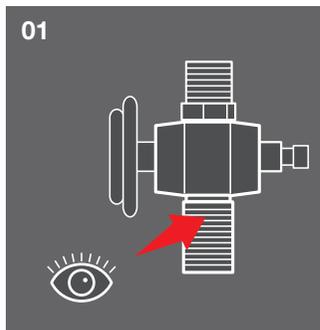
Never use any other method to discharge a cartridge.

- 05** Clamp the cartridge body in the strap wrench
- Make sure that you do not damage the cartridge body
- 06** Use the adjustable strap wrench to screw the valve body from the cartridge (counter-clockwise).
- 07** Transport the cartridge body and the valve body in the original packaging

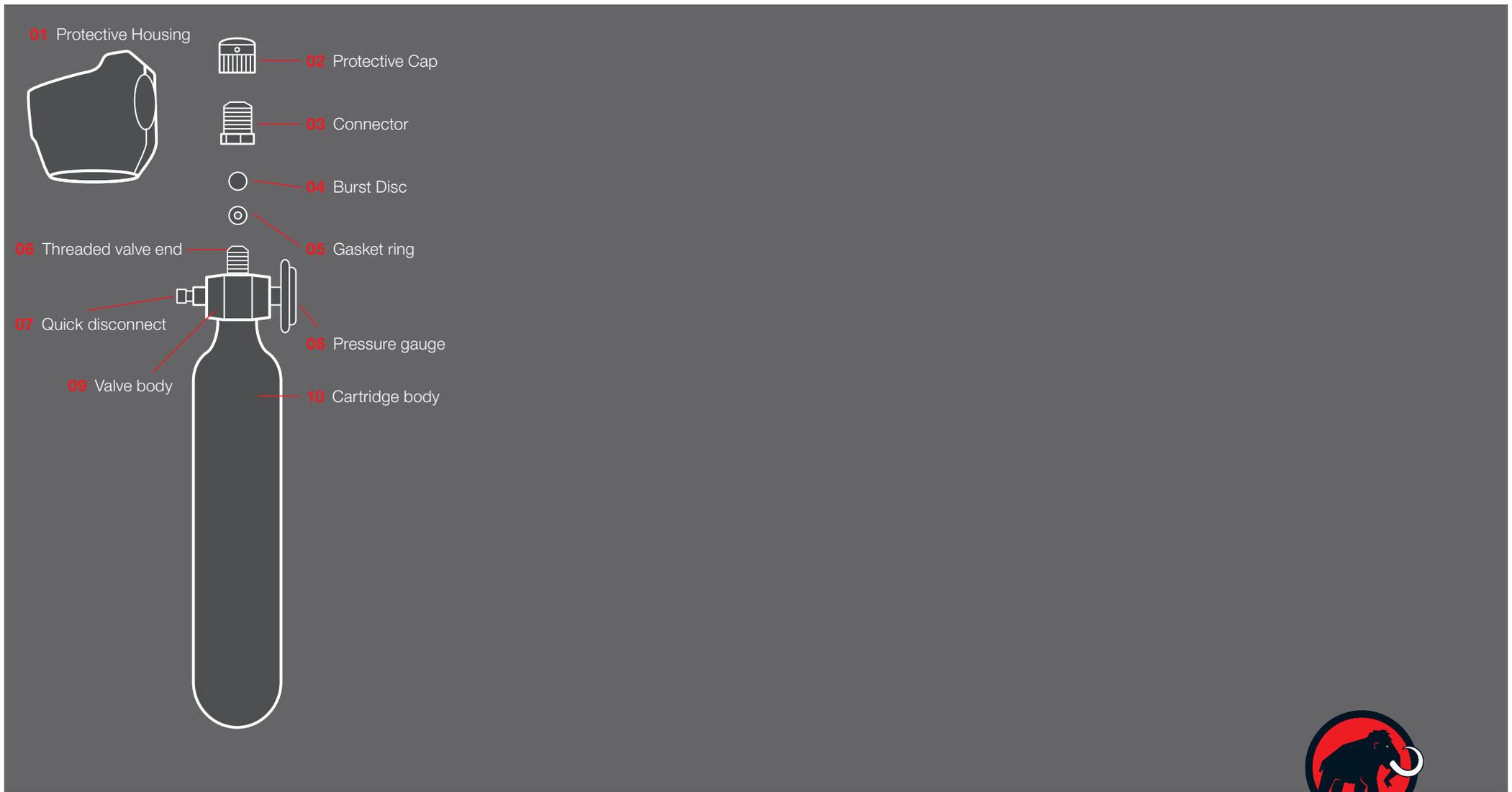


Prepare the cartridge for the filling process.

- 01** Make sure that the cartridge body and valve body are free from dirt and any foreign objects.
- 02** Make sure there is a rubber gasket ring between the valve body and cartridge body.
- 03** Use the adjustable wrench and strap wrench to screw the valve body onto the cartridge body (clockwise).
- 04** Then follow the steps in the cartridge refilling instructions. See: [www.mammut.ch/cartridge-refill](http://www.mammut.ch/cartridge-refill)
- 05** During the checking step when the cartridge is immersed in a bath of water, pay particular attention to make sure that no bubbles form on the sealing surface between the cartridge body and the valve body. This step checks that the valve body has been properly secured.
- 06** Check the fill pressure of the cartridge before each use. At a room temperature of 20 °C / 68 °F, the arrow must be in the green area.



# Parts Diagram for "Cartridge Refillable 207 Bar Alu"



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